

DOE/HRE-ID-094

**DOE READING ROOM
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T070258

<p>1. Location of Reading Room: Idaho Operations Public Reading Room 1776 Science Center Dr. University Place Idaho Falls, ID 83403</p>	<p>2. Expected Release Date: May 15, 1995</p>		
<p>3. Document Type:</p> <table style="width: 100%;"><tr><td style="width: 40%;"><p><input checked="" type="checkbox"/> Letter</p><p><input type="checkbox"/> Memorandum</p><p><input type="checkbox"/> Report</p><p><input type="checkbox"/> Publication</p><p><input type="checkbox"/> Other (Specify)</p></td><td style="width: 60%;"><p>a. If letter or memo:</p><p>To: J. W. McCaslin</p><p>From: O. L. Cordes</p><p>Subject: RADIOIODINE TEST CORD-42-65A</p><p>b. If report:</p><p>Title:</p></td></tr></table>		<p><input checked="" type="checkbox"/> Letter</p> <p><input type="checkbox"/> Memorandum</p> <p><input type="checkbox"/> Report</p> <p><input type="checkbox"/> Publication</p> <p><input type="checkbox"/> Other (Specify)</p>	<p>a. If letter or memo:</p> <p>To: J. W. McCaslin</p> <p>From: O. L. Cordes</p> <p>Subject: RADIOIODINE TEST CORD-42-65A</p> <p>b. If report:</p> <p>Title:</p>
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<p>4. Document Date:</p> <p>8-18-65</p>	<p>c. If publication:</p> <p>Name:</p> <p>Volume:</p> <p>Issue:</p>		
<p>5. Summary (2-3 lines indicating the major subject(s) of the document): O.L.Cordes requests concurrence to participate in upcoming AEC H&S CERT methyl iodide experiment: 1) placing samplers to test efficacy of sampling, and 2) place 6 (six) volunteers wearing SCOTT airpacs in the methyl iodide cloud for skin absorption tests. Data will be compared with tests by AEC on personnel without breathing protection.</p>			
<p>6. Name and telephone number of person completing form:</p> <p>Burton R. Baldwin (208) 525-0203</p>	<p>7. Organization:</p> <p>Lockheed Idaho Technologies Co.</p>	<p>8. Date:</p> <p>March 23, 1995</p>	

[] Check here if a copy of the document is being sent to Headquarters.

Public Reading Room
U. S. Department of Energy
Idaho Operations Office

HUMAN RADIATION EXPERIMENTS
RECORDS PROVENANCE FORM

REPOSITORY NAME	INEL
COLLECTION NAME	OFFICE OF CHIEF COUNSEL SUBJECT FILES
BOX NUMBER	INEL BOX NO. 23399
ADDITIONAL LOCATION INFORMATION	THE BOX IS STORED AT CFA-674-E RECORDS HOLDING AREA, LOCATION, UT6B THE RECORD STORAGE RECEIPT NUMBER IS 2613 FOLDER: SAFETY - 16 IODINE RADIATION EXPERIMENTS
FILE TITLE	RADIOIODINE TEST CORD-42-65A
TOTAL PAGES	
BATE NUMBER RANGE	
DOCUMENT NUMBER RANGE	

HEI FORM DOCUMENT NO.: T070050
DOCUMENT NO.: T070258
DOCUMENT TITLE: RADIOIODINE TEST CORD-42-65A
CROSS REFERENCES:
ITEMS OF INTEREST:



August 18, 1965

See Me 8/19

INTER-OFFICE CORRESPONDENCE / SUBJECT:

Radioiodine Test
Cord-42-65A

To: J. W. McCaslin

From: O. L. Cordes:jmk/PER *[Signature]*

The AEC ID Health and Safety Division is planning another test in their series of radioiodine releases in connection with the CERT tests. This next test will be a release of 10 curies of methyl iodine-131.

With your concurrence, we would like to participate in the release experiment in two ways: (1) We would like to place a number of our fission product and radioiodine samplers in the released cloud to check their efficiency for the elusive methyl iodine, and (2) We would like to place six human volunteers in the downwind area of the iodine release to check if iodine is absorbed through human skin. These six volunteers would be dressed in Scott air paks.

The volunteers for this experiment will be screened such that none have a history of thyroid disease or iodine exposure which might affect the results of the test. Whole body counts will be performed prior to the exposure to determine the background level for each individual.

The inhalation dose to the thyroid for the test position has been estimated to be on the order of 30 mrem. The skin penetration dose is not expected to exceed this value. The exposure time will be on the order of 30 minutes.

The six volunteers can be furnished from the TAN area. Each volunteer will wear a Scott type air pak and sleeveless or topless Anti-C clothing depending on the existing weather conditions.

Following the exposure, the volunteer will remove the Anti-C clothing prior to removing the breathing apparatus. This will prevent the inhalation of any material which might adhere to the clothing. Showers will be taken to remove skin contamination, and each volunteer will be recounted in the whole body counter.

The count taken after exposure should show the presence of any up-take through the skin. Data from this test will be compared with tests conducted by the AEC on personnel without breathing protection. Also, future tests with elemental radioiodine will furnish comparison data.

cc: J. F. Sommers
O. L. Cordes
P. E. Rhuter
File

REPOSITORY INEL

COLLECTION OFFICE OF CHIEF COUNSEL SUBJECT FILES
28399, UT6B CEA-674E

BOX No. FILE: SAFETY-16 IODINE RADIATION EXPERIMENTS

FOLDER RADIOIODINE TEST CORD-42-65A